

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TH2229 (US)APPLICATION NUMBER  
10/772,023LIST OF INFORMATION PROVIDED  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
P. M. Ayoub et al.FILING DATE  
February 4, 2004

GROUP ART UNIT

## REFERENCE DESIGNATION PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
JCD	AA	3,484,498	12/16/69	Berg	260	671	
JCD	AB	5,196,624	3/23/93	Threlkel et al.	585	513	
JCD	AC	5,196,625	3/23/93	Threlkel et al.	585	513	
JCD	AD	5,849,972	12/15/98	Vicari et al.	585	531	
JCD	AE	6,111,158	6,111,158	Marinangeli et al.	585	467	
JCD	AF	6,187,981	2/13/01	Marinangeli et al.	585	323	
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
JCD	AL	199 15 357 A1	4/6/99	Germany	C07C	2/08	X	
JCD	AM	198 59 911 A1	12/23/98	Germany	C07C	11/00	X	
JCD	AN	199 10 370 A1	3/9/99	Germany	C07C	11/02	X	
JCD	AO	199 12 418 A1	3/19/99	Germany	C07C	29/132	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JCD	AR	Nielsen et al., "Biodegradation of Coproducts of Commercial Linear Alkylbenzene Sulfonate," Environmental Science and Technology, 1997, 31:3397-3404
	AS	
	AT	

EXAMINER

/John Douglas/

DATE CONSIDERED

06/02/2006

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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes N	
JCD	BJ	100 26 906 A1	5/31/00	Germany	C07C	2/08	X	
JCD	BK	100 15 002 A1	3/25/00	Germany	C07C	2/08	X	
JCD	BL	199 10 103 A1	3/8/99	Germany	C07C	2/08	X	
JCD	BM	199 57 173 A1	11/27/99	Germany	B01J	27/053	X	
JCD	BN	WO 99/25668	5/27/99	World	C07C	2/10	X	
JCD	BO	WO 00/69795	11/23/00	World	C07C	2/08	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
	BS	
	BT	

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<b>FORM 1449 (Modified)</b> <b>SEP 1 6 2004</b> <b>PATENT &amp; TRADEMARK OFFICE</b> (Use several sheets if necessary)	ATTY. DOCKET NO. TH2229 (US)	APPLICATION NUMBER 10/772,023
	APPLICANT P. M. Ayoub et al.	
	FILING DATE February 4, 2004	GROUP ART UNIT 1764

REFERENCE DESIGNATION	U.S. PATENT DOCUMENTS						
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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
JCD	AA	6,515,169	2/4/03	Marinangeli et al.	562	93	
JCD	AB	3,492,364	1/27/70	Jones et al.	260	671	
JCD	AC	6,448,458	9/10/02	Marinangeli et al.	585	24	
JCD	AD	6,392,109	5/21/02	O'Rear et al.	585	323	
JCD	AE	3,442,965	5/6/69	Oldham	260	671	
JCD	AF	3,238,249	3/1/66	Mirviss, et al.	260	505	
JCD	AG	4,959,491	9/25/90	Threlkel	562	94	
	AH						
	AI						

FOREIGN PATENT DOCUMENTS							
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		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
JCD	AL	02/44114 A1	6/6/02	World	C07C	15/00		X

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
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FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES	
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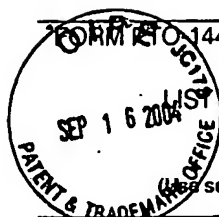
FOREIGN PATENT OFFICE	
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JCD	AT	International Search Report for PCT/US2004/002954 of 20 August 2004
JCD	AU	International Search Report for PCT/US2004/002958 of 23 July 2004
JCD	AV	International Search Report for PCT/US2004/002888 of 19 July 2004

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2/4/04GROUP ART UNIT  
1764

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

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							Yes	No
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	BM							
	BN							
	BO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
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## FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES

## FOREIGN PATENT OFFICE

JCD	BT	International Search Report for PCT/US2004/003010 of 14 July 2004
JCD	BU	International Search Report for PCT/US2004/003086 of 14 July 2004
JCD	BV	International Search Report for PCT/US2004/003166 of 15 July 2004

EXAMINER	/John Douglas/	DATE CONSIDERED	06/02/2006
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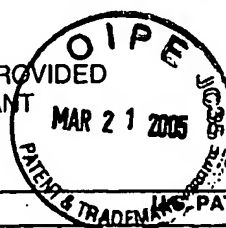
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							Yes	No
	AL							
	AM							
	AN							

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	AQ	
	AR	

## FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES

## FOREIGN PATENT OFFICE

JCD	AT	Notification of Transmittal of the International Preliminary Report on Patentability of 04 March 2005 for PCT/US2004/003166
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	AB						
	AC						
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes N
	AH						
	AI						
	AJ						
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	AM						
FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES							
FOREIGN PATENT OFFICE							
JCD	AO	Written Opinion of PCT/US2004/002958 filed 03 February 2004					
JCD	AP	Written Opinion of PCT/US2004/002954 filed 03 February 2004					
JCD	AQ	International Preliminary Report on Patentability of PCT/US2004/002954 of 14 March 2005					
JCD	AR	International Search Report of PCT/US2004/002956 of 23 July 2004					
JCD	AS	Written Opinion of PCT/US2004/002956 of 23 July 2004					
JCD	AT	International Preliminary Report on Patentability of PCT/US2004/002956 of 04 July 2005					
JCD	AU	International Preliminary Report on Patentability of PCT/US2004/002888 of 14 March 2005					
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FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	BH						
	BI						
	BJ						

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

	BM	
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JCD	BO	Written Opinion of PCT/US2004/002888 filed 03 February 2004
JCD	BP	Written Opinion of PCT/US2004/003166 filed 03 February 2004
JCD	BQ	Written Opinion of PCT/US2004/003010 filed 03 February 2004
JCD	BR	International Preliminary Report on Patentability of PCT/US2004/003010 of 03 January 2005
JCD	BS	Written Opinion of PCT/US2004/003086 filed 02 February 2004
JCD	BT	International Preliminary Report on Patentability of PCT/US2004/003086 of 14 March 2005
	BU	

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